U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

2014 Transportation Technology Deployment Report:

Southern California Clean Cities Coalition

March 2015

Clean Cities
U.S. Department of Energy

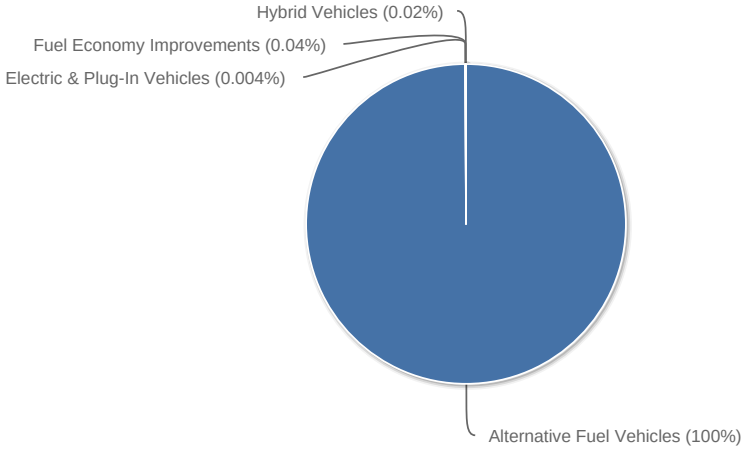
The U.S. Department of Energy's (DOE) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and private sectors to deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and new transportation technologies, as they emerge.

Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory (NREL). The data characterize membership, funding, projects, and activities of the coalitions. The coordinators also submit data on the sales of alternative fuels, deployment of alternative fuel vehicles and hybrid electric vehicles, idle-reduction initiatives, fuel economy activities, and programs to reduce vehicle miles traveled. NREL and DOE analyze the data and translate them into petroleum-use and greenhouse gas reduction impacts for individual coalitions and the program as a whole. This report summarizes those impacts for Southern California Clean Cities Coalition.

To view aggregated data for all local coalitions that participate in the Clean Cities program, visit www.eere.energy.gov/cleancities/accomplishments.html.

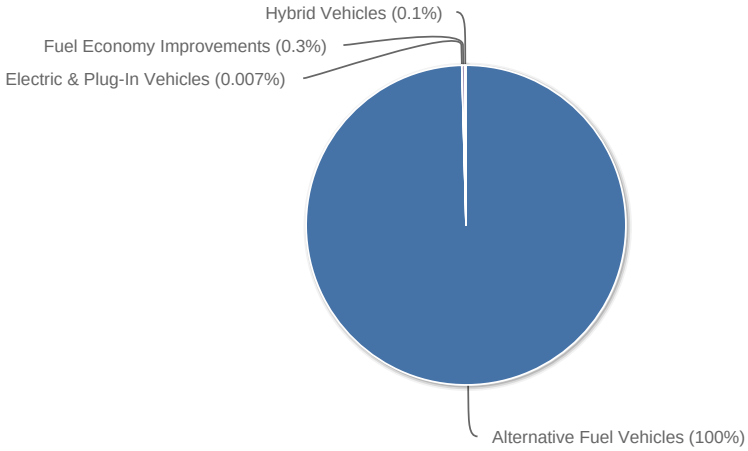
2014 Gallons of Gasoline Equivalent Reduced

50,156,411 gallons

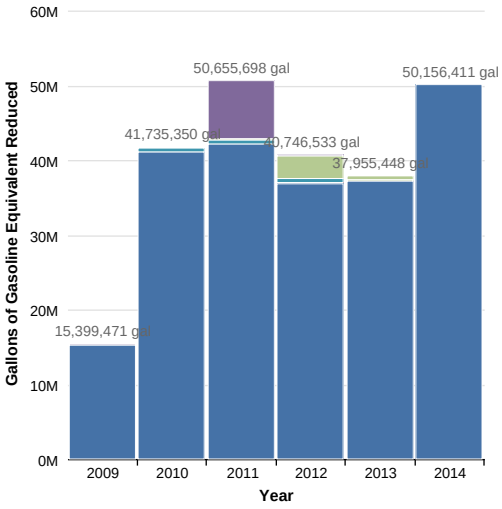


2014 Greenhouse Gas Emissions Reduced

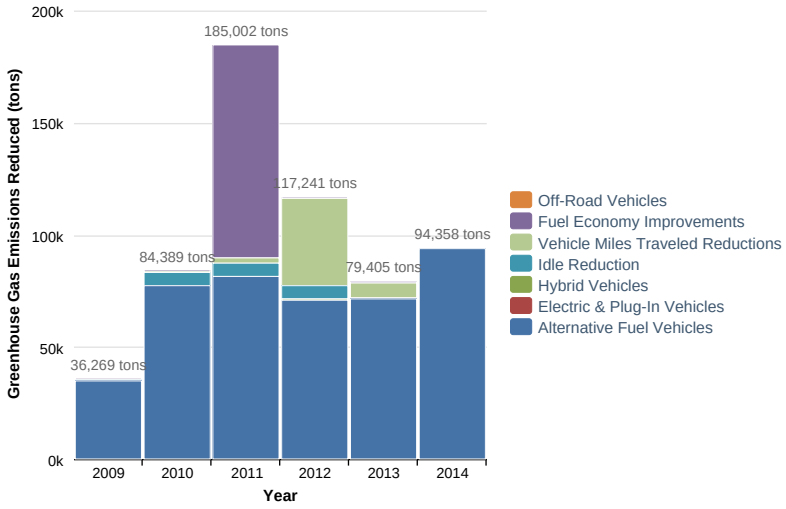
94,358 tons



Historical Gallons of Gasoline Equivalent Reduced

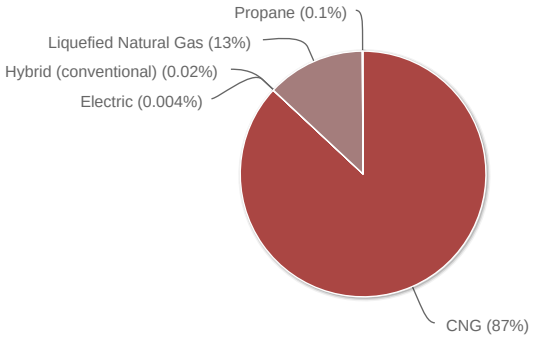


Historical Greenhouse Gas Emissions Reduced



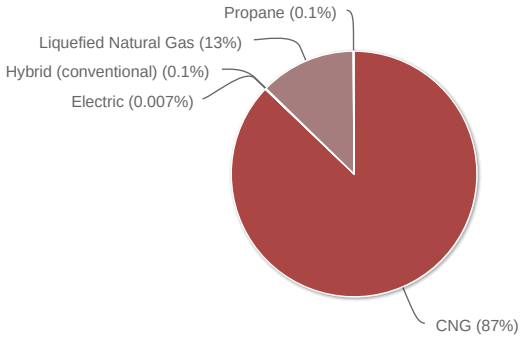
2014 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

50,135,102 gallons



2014 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

94,094 tons



COALITION

Southern California Clean Cities Coalition - CA

http://www.scag.ca.gov/cleancities/

Designated: 03/01/1996
Boundaries: Counties: Imperial, Los Angeles, Orange, San Bernardino, Ventura

COORDINATORS

	Address	Telephone	Fax
Marco Anderson	818 W 7th St, 12th Fl Los Angeles, CA 90017	213-236-1879	

Number of coordinators	1
Coordinator(s) hours per week on Clean Cities	10 hours
Other staff hours per week on Clean Cities	0 hours
How long have you been the coordinator?	2 years

OPERATING INFORMATION

Host organization	Council of Governments (COG), Municipal Planning Organization (MPO), or Regional Planning Commission (RPC)

Stakeholders

Number of stakeholders	90
Number of private stakeholders	0
Does the State Energy Office provide any financial support to the coalition or stakeholders?	No
How would you rate the quality of the data on your survey?	Good
How do you obtain most of your data for the survey?	Online questionnaire to stakeholders (SurveyMonkey, Google Forms, etc)
Has your coalition registered with www.grants.gov?	No

2014 Outside Funding

Stakeholder dues collected	$0
How much funding is obtained from other sources to cover coalition operating expenses?	$0

Non-DOE or ARRA grant and matching funds spent in 2014	$0
Total non-DOE or ARRA funding in 2014	$0

VEHICLE & FUEL INVENTORY

Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Alhambra	Light-Duty	CNG	4	100% of time	1,327 gal	2.5 tons
Miles traveled per vehicle: 10,614 mi **Average vehicle fuel economy:** 32 MPGge **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Cerritos - Cerritos on Wheels	Heavy-Duty	Propane	5	100% of time	59,963 gal	125.2 tons
Miles traveled per vehicle: 33,600 mi **Average vehicle fuel economy:** 3 MPGde **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Corona	Heavy-Duty	CNG	8	71,763 GGE	68,179 gal	128.3 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Covina	Light-Duty	CNG	1	100% of time	312 gal	0.6 tons
Miles traveled per vehicle: 10,000 mi **Average vehicle fuel economy:** 32 MPGge **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Glendale Transit	Heavy-Duty	CNG	36	299,330 GGE	284,381 gal	535.0 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Average annual mileage: 200000*						
City of Glendora	Heavy-Duty	CNG	1	3,246 GGE	3,084 gal	5.8 tons
Market: Government - Local **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Irvine	Light-Duty	CNG	23	100% of time	17,633 gal	33.2 tons
Miles traveled per vehicle: 11,500 mi **Average vehicle fuel economy:** 15 MPGge **Market:** Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *3/25/15 Kay Kelly unchecked NCFP box, call with questions.*						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Irvine	Light-Duty	CNG	30	100% of time	10,781 gal	20.3 tons
Miles traveled per vehicle: 11,500 mi **Average vehicle fuel economy:** 32 MPGge **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Lynwood	Heavy-Duty	CNG	4	100% of time	55,323 gal	104.1 tons
Miles traveled per vehicle: 25,000 mi **Average vehicle fuel economy:** 2 MPGde **Market:** Government - Local **Vehicle type:** Truck: Refuse **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Lynwood	Heavy-Duty	CNG	4	100% of time	49,791 gal	93.7 tons
Miles traveled per vehicle: 45,000 mi **Average vehicle fuel economy:** 4 MPGde **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Lynwood	Heavy-Duty	CNG	2	100% of time	664 gal	1.2 tons
Miles traveled per vehicle: 9,000 mi **Average vehicle fuel economy:** 30 MPGde **Market:** Government - Local **Vehicle type:** Unknown/Other **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Pasadena - Rapid Transit System	Heavy-Duty	CNG	19	173,913 GGE	165,227 gal	310.8 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Pasadena - Rapid Transit System	Light-Duty	CNG	1	24,074 GGE	22,872 gal	43.0 tons
Market: Government - Local **Vehicle type:** Unknown/Other **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Pomona	Heavy-Duty	CNG	22	100% of time	304,279 gal	572.4 tons
Miles traveled per vehicle: 25,000 mi **Average vehicle fuel economy:** 2 MPGde **Market:** Government - Local **Vehicle type:** Truck: Refuse **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Redondo Beach - Beach Cities Transit	Heavy-Duty	CNG	20	149,438 GGE	141,975 gal	267.1 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *8 Bus Shuttle Vehicles; 12 Bus Transit Vehicles. Total fleet GGE usage provided.* *Average miles per vehicle: 25871*						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Santa Monica Big Blue Bus	Heavy-Duty	CNG	199	100% of time	2,587,130 gal	4,866.8 tons
Miles traveled per vehicle: 36,424 mi **Average vehicle fuel economy:** 3 MPGde **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Sierra Madre	Light-Duty	CNG	7	100% of time	933 gal	1.8 tons
Miles traveled per vehicle: 2,000 mi **Average vehicle fuel economy:** 15 MPGge **Market:** Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Whittier	Heavy-Duty	CNG	12	7% of time	3,430 gal	6.5 tons
Miles traveled per vehicle: 6,273 mi **Average vehicle fuel economy:** 2 MPGde **Market:** Government - Local **Vehicle type:** Truck: Refuse **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Whittier	Heavy-Duty	CNG	9	7% of time	437 gal	0.8 tons
Miles traveled per vehicle: 6,272 mi **Average vehicle fuel economy:** 10 MPGde **Market:** Government - Local **Vehicle type:** Unknown/Other **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Fuel Economy not Provided. Estimated to be for Dial-a-Ride Services*						
City of Whittier	Light-Duty	CNG	3	100% of time	853 gal	1.6 tons
Miles traveled per vehicle: 4,263 mi **Average vehicle fuel economy:** 15 MPGge **Market:** Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Los Angeles County Metropolitan Transit Authority	Heavy-Duty	CNG	2,500	85% of time	31,855,603 gal	59,925.5 tons
Miles traveled per vehicle: 42,000 mi **Average vehicle fuel economy:** 3 MPGde **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Caley changed to 85% contribution after the meeting of the Large and Unusual panel. This is the same as last year.*						
Omnitrans	Heavy-Duty	CNG	180	2,515,145 GGE	2,389,534 gal	4,495.1 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Average Mileage per vehicle: 46,645*						
Orange County Transportation Authority	Heavy-Duty	CNG	338	4,947,619 GGE	4,700,525 gal	8,842.4 tons
Market: Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Orange County Transportation Authority **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No	Heavy-Duty	LNG	190	5,320,032 gal	3,335,864 gal	6,103.4 tons
Orange County Transportation Authority **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No	Heavy-Duty	LNG	190	5,006,382 gal	3,139,193 gal	5,743.5 tons
Orange County Transportation Authority **Miles traveled per vehicle:** 13,344 mi **Average vehicle fuel economy:** 32 MPGge **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No	Light-Duty	CNG	100	100% of time	41,700 gal	78.4 tons
Riverside Transit Agency **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *Average Annual Mileage per Vehicle: 54400*	Heavy-Duty	CNG	99	904,248 GGE	859,088 gal	1,616.1 tons
Riverside Transit Agency **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No *average annual mileage per vehicle: 9500*	Light-Duty	CNG	7	2,334 GGE	2,217 gal	4.2 tons
Southland Transit - Serving Baldwin Park **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No	Heavy-Duty	CNG	4	22,240 GGE	21,129 gal	39.7 tons
Total:			**4,018**		**50,123,430 gal**	**93,969 tons**

Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Alhambra **Average vehicle fuel economy:** 22 MPG **Miles traveled per vehicle per year:** 14,596 mi **Market:** Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No	Light-Duty	HEV	12	2,281 gal	28.1 tons
City of Covina **Average electric fuel economy:** - kWh/100mi **Miles traveled per vehicle per year:** 7,000 mi **Market:** Government - Local **Vehicle type:** Low-Speed/Neighborhood **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No	Light-Duty	Electric	2	1,047 gal	3.4 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Covina	Light-Duty	HEV	1	130 gal	1.6 tons
Average vehicle fuel economy: 22 MPG **Miles traveled per vehicle per year:** 10,000 mi **Market:** Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
City of Whittier	Light-Duty	Electric	3	955 gal	3.1 tons
Average electric fuel economy: - kWh/100mi **Miles traveled per vehicle per year:** 4,256 mi **Market:** Government - Local **Vehicle type:** Low-Speed/Neighborhood **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
City of Whittier	Light-Duty	HEV	3	188 gal	2.3 tons
Average vehicle fuel economy: 35 MPG **Miles traveled per vehicle per year:** 4,263 mi **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
Orange County Transportation Authority	Light-Duty	HEV	36	7,071 gal	87.1 tons
Average vehicle fuel economy: 35 MPG **Miles traveled per vehicle per year:** 13,344 mi **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No					
Total:			**57**	**11,672 gal**	**126 tons**

FUEL ECONOMY

Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
City of Arcadia	11 MPG	14 MPG	19	19,000 mi	7,781 gal	96.5 tons
Method: Vehicle - Smaller **Vehicle class:** Heavy-Duty **Market:** Government - Local **Vehicle type:** Bus: Shuttle **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Cerritos - Cerritos on Wheels	10 MPG	14 MPG	5	33,600 mi	5,311 gal	65.9 tons
Method: Driver training **Vehicle class:** Heavy-Duty **Market:** Government - Local **Vehicle type:** Bus: Transit **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Diesel vehicles replaced by Propane fueled vehicles. Contacted City and revised current fuel economy						
City of Lynwood	10 MPG	20 MPG	15	9,000 mi	6,750 gal	83.1 tons
Method: Vehicle - More efficient **Vehicle class:** Light-Duty **Market:** Government - Local **Vehicle type:** Pickup/SUV/Van **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
City of Lynwood	20 MPG	30 MPG	8	8,000 mi	1,067 gal	13.1 tons
Method: Vehicle - Smaller **Vehicle class:** Light-Duty **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
City of Whittier	20 MPG	30 MPG	3	8,000 mi	400 gal	4.9 tons
Method: Vehicle - Hydraulic hybrid **Vehicle class:** Light-Duty **Market:** Government - Local **Vehicle type:** Car **Percentage from coalition:** 100% **National Clean Fleets Partnership:** No						
Total:			**50**	**77,600 mi**	**21,309 gal**	**264 tons**

FUEL STATIONS

New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	-	5
E85 - 85% Ethanol	-	-
Electric Chargers	-	-
Hydrogen	-	1
LNG - Liquefied Natural Gas	-	-
Propane	-	-
Total:	**0**	**6**

OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Fleet Contact Outreach	05/01/2014, 06/01/2014, 08/01/2014, 09/01/2014	Meeting - Other	100%	7
Technology: Alternative fuel vehicles, Hybrid electric vehicles, Vehicle miles traveled reduction **Audience:** *Contact was made with individuals at a variety of non Clean Cities specific events. These individuals were contacted to discuss potential funding opportunities, trainings, and other materials/services provided by the Clean Cities Program. Contacts were added to outreach database.*				
Alt Vehicle Display, Ride and Drive	05/01/2014	Meeting - Stakeholder	100%	20
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Vehicle miles traveled reduction **Audience:** Government *Coordinated annual displays and ride and drives of alternative fuel vehicles at the SCAG General Assembly*				
Sponsorship and display booth at Annual Mobility 21 Conference	09/16/2014	Conference participation	100%	18
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction **Audience:** Government *Sponsorship and display booth at Annual Mobility 21 Conference to showcase the resources available through the Clean Cities Program.*				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Cleantech OC Clean Transportation Conference	09/16/2014	Conference participation	100%	50
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction **Audience:** Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste *Panel Moderation provided by Marco Anderson.*				
AltCar Expo - Santa Monica	09/18/2014	Conference participation	50%	35
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Vehicle miles traveled reduction **Audience:** General Public, Government, Private Fleets, Transit, Utility *Sponsorship and Panel Moderation at Annual AltCar Expo in Santa Monica provided by Marco Anderson.*				
CEC PON 14-603 Zero Emission Vehicle Readiness Grant Info Webinar	10/01/2014	Workshop held by coalition	100%	25
Technology: Alternative fuel vehicles, Vehicle miles traveled reduction **Audience:** General Public, Government, Private Fleets, Transit, Utility, Waste				
Palm Springs Energy Summit	10/16/2014	Conference participation	100%	18
Technology: Alternative fuel vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction **Audience:** Government *Sponsorship and booth at Annual Palm Springs Energy Summit to showcase Clean Cities Coalition Resources.*				
Total:				**173**

GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2014	Matching Funds Spent in 2014	Total Project Funding Spent in 2014
DOE	$75,000	-	$75,000	$25,000	$0	$25,000
Length of grant: 3 **Year grant began:** 2012 **Sources of the grant:** **Partners:** South Coast Air Quality Management District, UPS **Technologies:** LNG - Liquefied Natural Gas **Purpose:** Complete LNG fueling corridor linking LNG fueling structure in SoCA to station in in Utah *South Coast Air Quality Management District's UPS Ontario-Las Vegas LNG Corridor Expansion Project.The project will complete a long-planned regional liquid natural gas (LNG) fueling corridor across the southwestern U.S., making the final connection between the existing public access LNG fuel infrastructure in Southern California and the LNG fuel stations being developed in Utah. DOE estimates that the 48 trucks alone will help displace approximately 1.25 million gallons of petroleum annually.*						
Total:	**$75,000**	**$0**	**$75,000**	**$25,000**	**$0**	**$25,000**